

## ABSTRACT

A process for producing a magnetic recording medium having at least one magnetic layer formed above a support is provided. The process includes a step of providing, on at least one side of the support, a smoothing coating layer having a thickness of 0.10 to 1  $\mu\text{m}$ , a surface roughness of at most 5 nm, a number of projections having a height of 20 nm or higher measured by atomic force microscopy (AFM) of at most 20 projections/900  $\mu\text{m}^2$ , and an amount of residual solvent of less than 10  $\text{mg}/\text{m}^2$ , and a step of forming at least one magnetic layer on or above the smoothing coating layer without winding up.